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Alpha and Omega Semiconductor Introduces Best-In-Class DrMOS-IV Power Modules

Versatile synchronous buck power stage featuring state-of-the-art technology

SUNNYVALE, Calif., April 21, 2016 (GLOBE NEWSWIRE) -- [Alpha and Omega Semiconductor Limited](#) (AOS) (Nasdaq:AOSL), a designer, developer and global supplier of a broad range of power semiconductors and power ICs, today introduced [AOZ5049](#), the first of the fourth generation of high efficiency power modules with an EZPair™ package. The AOZ5049 is housed in a 24-pin 3.5mm x 5mm QFN package that integrates a dual gate driver and two enhanced MOSFETs, which together produce a high efficiency DC-DC synchronous buck power stage. The new device enables high power density voltage regulator solutions ideal for Notebook PCs, servers, and graphic cards applications.

A photo accompanying this announcement is available at

<http://www.globenewswire.com/NewsRoom/AttachmentNg/c009b635-3ba6-4b67-8c28-0b11cc37ba83>

The AOZ5049 is an optimized solution with improved efficiency and thermal performance for Intel IMVP8 compatible CPUs, comparing to previous generation. Efficiency has been improved by 2.5 percent at heavy load, and thermal improvement has minimized power device loss — reducing the IC surface temperature by 10 percent.

"The heavy load efficiency of the AOZ5049 is 1 percent higher and the IC surface temperature is almost 10 percent lower than that of the closest competitor," said Kenny Hu, Power IC Product Marketing Manager at AOS.

Technical Highlights

Input Voltage Range: 4.5V to 25V
Output Current: Up to 35A
Switching Frequency: Up to 2MHz
Package: 3.5mm x 5mm QFN-24L
Standard: IMVP8

Pricing and Availability

The AOZ5049 is immediately available in production quantities with a lead-time of 12 weeks. The unit price of 1,000 pieces is \$1.60.

About AOS

Alpha and Omega Semiconductor Limited, or [AOS](#), is a designer, developer and global supplier of a broad range of power semiconductors, including a wide portfolio of [Power MOSFET](#), [IGBT](#) and [Power IC](#) products. AOS has developed extensive intellectual property and technical knowledge that encompasses the latest advancements in the power semiconductor industry, which enables us to introduce innovative products to address the increasingly complex power requirements of advanced electronics. AOS differentiates itself by integrating its Discrete and IC semiconductor process technology, product design, and advanced packaging know-how to develop high performance power management solutions. AOS's portfolio of products targets high-volume applications, including portable computers, flat panel TVs, LED lighting, smart phones, battery packs, consumer and industrial motor controls and power supplies for TVs, computers, servers and telecommunications equipment. For more information, please visit www.aosmd.com.

Forward Looking Statements

This press release contains forward-looking statements that are based on current expectations, estimates, forecasts and projections of future performance based on management's judgment, beliefs, current trends, and anticipated product performance. These forward-looking statements include, without limitation, references to the efficiency and capability of new products, and the potential to expand into new markets. Forward looking statements involve risks and uncertainties that may cause actual results to differ materially from those contained in the forward-looking statements. These factors include, but

are not limited to, the actual product performance in volume production, the quality and reliability of the product, our ability to achieve design wins, the general business and economic conditions, the state of the semiconductor industry, and other risks as described in the Company's annual report and other filings with the U.S. Securities and Exchange Commission. Although the Company believes that the expectations reflected in the forward looking statements are reasonable, it cannot guarantee future results, level of activity, performance, or achievements. You should not place undue reliance on these forward-looking statements. All information provided in this press release is as of today's date, unless otherwise stated, and AOS undertakes no duty to update such information, except as required under applicable law.

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